

Date: 25 Jun 2025

FYI - Fusion News/Alerts

Strong project execution and the latest big lift

<https://www.iter.org/node/20687/strong-project-execution-and-latest-big-lift>

Two sector modules side by side in the pit

<https://www.iter.org/node/20687/two-sector-modules-side-side-pit>

[Latest ITER Newline: <https://www.iter.org/whatsnew/462>]

Fusion: The race is on, but everyone wins

<https://www.burges-salmon.com/articles/102kgiu/fusion-the-race-is-on-but-everyone-wins/>

Physicists recreate forgotten experiment observing fusion

<https://www.lanl.gov/media/news/0623-dt-fusion-experiment>

Clean energy future to be 'built in Britain'

<https://www.gov.uk/government/news/clean-energy-future-to-be-built-in-britain>

Simulation of capsule implosions during laser fusion wins Plasma Physics and Controlled Fusion Outstanding Paper Prize

<https://physicsworld.com/a/simulation-of-capsule-implosions-during-laser-fusion-wins-plasma-physics-and-controlled-fusion-outstanding-paper-prize/>

NJ HAX Plasma Forge, a new strategic innovation center, is coming to the Princeton area

<https://www.pppl.gov/news/2025/nj-hax-plasma-forge-new-strategic-innovation-center-coming-princeton-area>

Proxima Fusion Signs HTS Tape Deal for Demo Magnet

<https://www.eurekamagazine.co.uk/content/news/proxima-fusion-signs-hts-tape-deal-for-demo-magnet>

Electric sails prove promising for propellant-less spacecraft propulsion

<https://www.aip.org/scilights/electric-sails-prove-promising-for-propellant-less-spacecraft-propulsion>

Micronozzle could give laser-driven particle accelerators a boost

<https://physicsworld.com/a/micronozzle-could-give-laser-driven-particle-accelerators-a-boost/>

The Top 10 Emerging Technologies of 2025

<https://www.weforum.org/stories/2025/06/top-10-emerging-technologies-of-2025/>

[Refer to 3. *Advanced Nuclear Technologies*]

Liquid carbon reveals its secrets

<https://physicsworld.com/a/liquid-carbon-reveals-its-secrets/>

Recent Peer-Reviewed Articles of Interest

Bridging the gap: Informal education's role in preparing students, communities, and the workforce for fusion energy

<https://pubs.aip.org/aip/pop/article/32/6/060601/3350606/Bridging-the-gap-Informal-education-s-role-in>

A laser-based annealing methodology to speed-up the study of thermo-activated restoration mechanisms in metals

<https://pubs.aip.org/aip/rsi/article/96/6/063508/3350499/A-laser-based-annealing-methodology-to-speed-up>

Fiber-optic bolometers with high-temperature tolerance and reduced time constants for fusion plasma diagnostics

<https://pubs.aip.org/aip/rsi/article/96/6/063507/3350500/Fiber-optic-bolometers-with-high-temperature>

X-ray tomographic measurement and modeling for inferring tungsten impurity distribution in WEST plasmas: A review

<https://pubs.aip.org/aip/rsi/article/96/6/063509/3350756/X-ray-tomographic-measurement-and-modeling-for>

Taylor limit studies for local helicity injection plasma startup

<https://pubs.aip.org/aip/pop/article/32/6/062510/3350779/Taylor-limit-studies-for-local-helicity-injection>

Quadruple probe measurements to estimate thrust to power ratios for a pulsed deflagration plasma jet

<https://pubs.aip.org/aip/pop/article/32/6/063108/3350780/Quadruple-probe-measurements-to-estimate-thrust-to>

Modeling of crossed-beam energy transfer in inertial confinement fusion: Numerical simulation and theoretical analysis

<https://pubs.aip.org/aip/pop/article/32/6/062708/3350589/Modeling-of-crossed-beam-energy-transfer-in>

Development and performance of the thin-foil proton recoil spectrometer for ITER plasma diagnostics

<https://www.sciencedirect.com/science/article/pii/S0920379625004594>

Computation of magnetohydrodynamic equilibria with Voigt regularization

<https://pubs.aip.org/aip/pop/article/32/6/062507/3350464/Computation-of-magnetohydrodynamic-equilibria-with>

Efficient framework for solving plasma waves with arbitrary distributions

<https://pubs.aip.org/aip/pop/article/32/6/060702/3350486/Efficient-framework-for-solving-plasma-waves-with>

[*Of Interest*]

This giant, all-seeing telescope is set to revolutionize astronomy

<https://www.science.org/content/article/giant-all-seeing-telescope-set-revolutionize-astronomy>

Hundred years of the discovery of rhenium

<https://www.currentscience.ac.in/Volumes/128/12/1247.pdf>